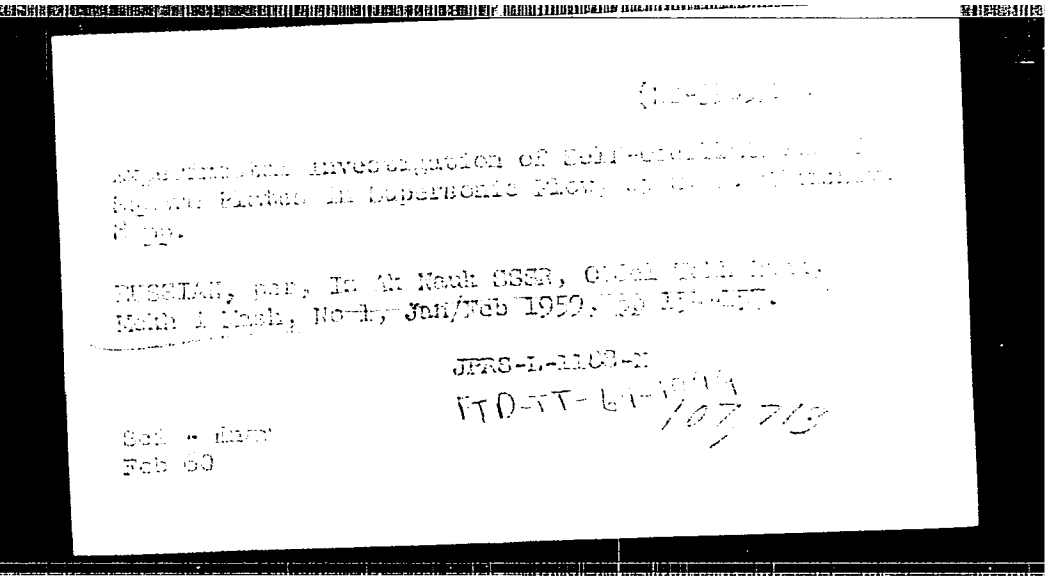
APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300820065-4



Experimental Investigation of Boundary-Layer [illegible]
Supersonic Flight in Isopycnic Flow [illegible]
[illegible]

TRUSKIAN, N.P., In Ak Nauk SSSR, Otdel Tekh Nauk,
Mekh i Mash, No 1, Jan/Feb 1959, pp 151-157.

JPRS-1,-3103-N
FTD-TT-61-1071/1+2+10

Sol - Mech
Feb 60

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300820065-4

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300820065-4

(IN-3905/2).

Self-Oscillating Systems in the Presence of Slowly Changing External Influences, by A. A. Pervozvanskiy, 7 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh Nauk, Mekh i Mash, No 1, Jan/Feb 1959, pp 158-161.

/5

JPRS-L-1188-N

Sci - Engr
Feb 60

107,714

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300820065-4

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300820065-4

(NY-3905/2).

One Approximation Method of Investigating Self-Oscillating Systems in the Presence of Slowly Changing External Influences, by V. I. Sergeyev, 5 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh Nauk, Mekh i Mash, No 1, Jan/Feb 1959, pp 162-164.

JPRS-L-1168-N

Sci - Engr
Feb 60

107,715

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300820065-4

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300820065-4

(NY-3905/2).

On the Motion of a Slender Solid Body Under the Action of a Strong Shock Wave, by S. S. Grigoryan; 4 pp.

Rossiiskaya, Akademiya Nauk SSSR, Otdeleniye Tekhnicheskikh Nauk, Mekh. i Mash., No 1, Jan/Feb 1959, pp 165-166.

JPRS-L-1138-N
MDF-G-152

107716

Sel - 3087
Feb 60

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300820065-4

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300820065-4

(IN-3905/2).

Useful Interference of an Airfoil and Fuselage in Hypersonic Velocities, by G. L. Grodzovskiy, 6 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh Nauk, Mekh i Mash, No 1, Jan/Feb 1959, pp 170-173.

JPRS-L-1188-N

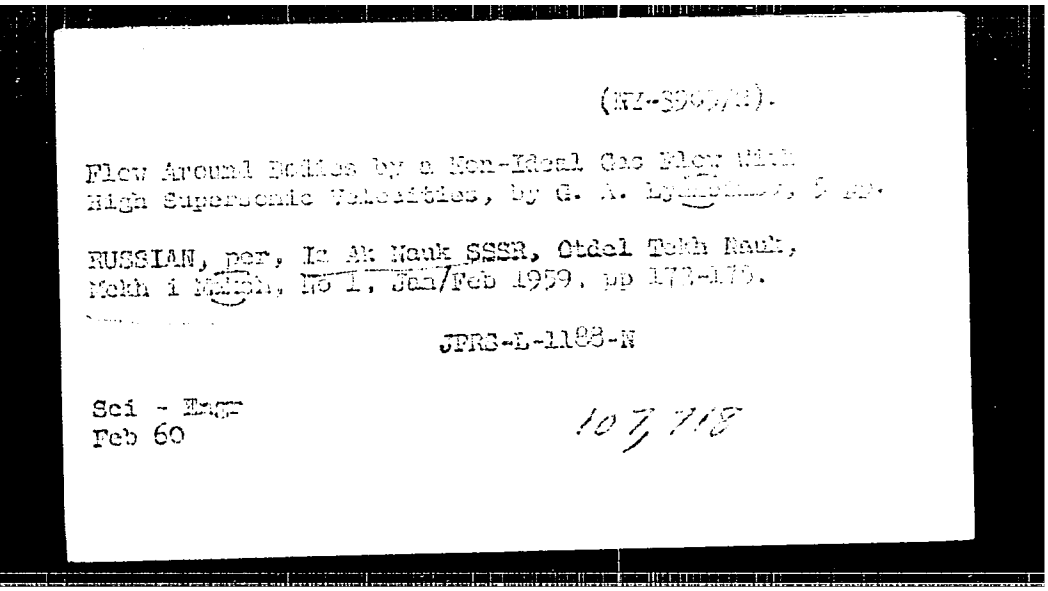
NLL RTS 15[illegible]
SLA: 61-15635 07717

Sci - Engr
Feb 60

CIA/FDD XX-1270
Not Releasable to Foreign Nationals
USIB Internal Use Only

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300820065-4

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300820065-4



(RZ-S[illegible]).

Flow Around Bodies by a Non-Ideal Gas Flow With High Supersonic Velocities, by G. A. L[illegible], 5 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh Nauk, Mekh i Mash, No 1, Jan/Feb 1959, pp 173-179.

JPRS-L-1108-N

Sci - Engr
Feb 60

10 Z 718

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300820065-4

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300820065-4

(NY-3905/2).

On the Theory of Gas Flow in the Layer Between the Surface of a Shock Wave and the Blunt Surface of a Rotating Body, by M. A. Slezkin, 16 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh Nauk, Mekh i Mash, No 2, Mar-Apr 1959, pp 3-12.

JPRS-L-1188-N

107 705

Sci - Phys, Engr
Feb 60

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300820065-4

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300820065-4

(NY-3905/2).

Approximation Method of Calculation Shock Waves and Their Interactions, by G. M. Lyakhov, N. I. Polyakova, 10 pp.

RUSSIAN, per; Iz Ak Nauk SSSR, Otdel Tekh Nauk, Mekh i Mash, No 2, Mar-Apr 1959, pp 13-18.

JPRS-L-1188-N

Sci - Phys, Engr
Feb 60

107, 706

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300820065-4

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300820065-4

(NY-3905/2).

Deceleration of a Supersonic Flow in Wind Tunnel Diffusers, by N. N. Shirokov, 12 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdiel Tekh Nauk, Mekh i Mash, No 2, Mar-Apr 1959, pp 19-24.

JPRS-L-1188-N

Sci - Phys, Engr
Feb 60

107,707

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300820065-4

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300820065-4

Theory of Resistance of a Ship During Motions in Waves, by Hasking.
RUSSIAN, per, Izvestiya AN SSSR, OTN, Mekh i Mash, No 2, 1959, pp 46-56.
*Dept of Navy/NSRDC

Sci/Mekh
June 70

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300820065-4

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300820065-4

Investigation of Free Oscillations of the Nonlinear Systems With One or Two Degrees of Freedom, by N. K. Kulikov.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh Nauk, Mekh i Mash, No 2, 1959, pp 81-87.

Navy 3012/NRL 878
OTS 62-11137

180, 102

Sci - Phys

Feb 62

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300820065-4

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300820065-4

Theory of Anisotropic Thick Plates, by
S. G. Lekhnitskiy. 9 pp.
RUSSIAN, per, Izvestiya AN SSSR, Mekahnika i
Mashinostroyeniye, No 2, 1959, pp 142-145.
AIR/FTD/TT-23-600-69

sci/mechan engr
may 70

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300820065-4

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300820065-4

Analysis of a Cylindrical Shell Clamped Along an Oblique Contour, by M. I. Estrin, 8 pp.
RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh Nauk, Mekh i Mash, No 2, 1959, pp 151-155.
AEC-ORNL-Tr-19

NLL RTS 2498
(CLASN)
OTS 7 T-64-19118

Sci-Phys
Aug 64

262,926

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300820065-4

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300820065-4

THE THERMAL ENDURANCE AND STRENGTH OF GLASS,
BY G. M. BARTENEV, V. I. ROZANOVA, 9pp

RUSSIAN, PER, IZ AK NAUK SSSR, OTDEL, TEKH
NAUK MEKH MASH, NO 2, 1959, PP 159-162

4093505

RAE 961
OTS FT-63-24333

SCI - PHYS

JUN 62

199,092

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300820065-4

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300820065-4

Makhortykh, Zh. K.
STABILITY OF A MULTISPAN PANEL MOVING IN A GAS. [1962] [10]p. 6 refs.
Free copies available from Boeing Scientific Research Labs. Library as Boeing Trans. R43. When supply is exhausted, order from OTS or SLA $1.10, 62-18854

Trans. of Akademiya Nauk SSSR. Otdelenie Tekhnicheskikh Nauk. Izvestiya; Mekhanika i Mashinostroenie, 1959, no. 2, p. 174-177.

DESCRIPTORS: *Aerodynamic configurations, *Panels (Structural), Oscillation, Stability, Supersonic flight, Supersonic characteristics, Aero-elasticity, Flutter.

The problem of the oscillations of a multispan panel of finite length moving in a gas with great supersonic velocity is investigated in the linear formulation. The pressure of the gas is taken into account by the formula of piston theory. (Author)
(Mechanics--Aerodynamics, TT, v. 9, no. 4)

62-18854

I. Makhortykh, Zh. K.
II. Boeing Trans-R43
III. Boeing Scientific Research Labs., Seattle, Wash.

Office of Technical Services

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300820065-4

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300820065-4

Stability of a Multiple-Support Panel Moving In a Gas, by Zh. K. Makhortykh.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh Nauk, Mekh i Mash, No 2, 1959, pp 174-177.

NASA TT F-8104

Sci

6 Mar 62

185,913

US GOV'T ONLY

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300820065-4

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300820065-4

(HY-3905/2).

Shock Tubes for Measuring Drag Coefficients of Bodies in Free Flight, by Yu. A. Dunayev, G. I. Kishin, 6 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh Nauk, Mekh i Mash, No 2, Mar-Apr 1959, pp 188-190.

JPRS-L-1188-N

Sci - Phys, Engr
Feb 60

107708

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300820065-4

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300820065-4

Tsynkova, O. E.
GAS MOTION IN CHANNELS OF FINITE LENGTH UNDER VARIABLE COUNTER-PRESSURE (Dvizheniya Gaza v Kanalakh Konechnoi Dliny pri Peremennom Protivodavlenii) tr. by Sergey Shewchuck, Feb 62, 30p. (foreign text included) 3 refs.
Order from OTS or SLA $2.60 UCRL Trans-788 (L)

Trans. of Akademiya Nauk SSSR, Otdelenie Tekhnicheskikh Nauk, Izvestiya Mekhanika i Mashinostroenie, 1959, no. 3, p. 15-24.

DESCRIPTORS: *Gas flow, Pressure, Density, Velocity, Temperature, Entropy, *Fluid mechanics, Supersonic flow, Subsonic flow.

The present report analyzes (also in the linear approximation) the problem of gas flow in channels of finite length with injection and suction across an opening (Mechanics--Aerodynamics, TT, v. 9, no. 7) (over)

I. Tsynkova, O. E.
II. UCRL-Trans-788 (L)
III. Lawrence Radiation Lab., U. of California, Berkeley

Office of Technical Services

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300820065-4

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300820065-4

(NY-5905.2).

Nonlinear Problems of Stability of Flat Panels at High Supersonic Speeds, by V. V. Bolotin, 8 pp.

RUSSIAN, per, Is Ak Nauk SSSR, Otdel Tekh Nauk, Mekh i Mash, No 3, May/Jun 1959, pp 59-64.

JPRS-L-1188-N

Sci - Engr
Feb 60

X-5936 F000
107719

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300820065-4

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300820065-4

Turbulent Wake and Jet in a Flow in the Presence of a Longitudinal Pressure Gradient, by A. S. Ginevskiy.

RUSSIAN, per, Iz Ak Nauk, Otdel Tekh Nauk, Mekh i Mash, Vol II, 1959, pp 31-36.

TIL T5261

Sci - Engr
Feb 63

NLL M.3988 222,461

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300820065-4

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300820065-4

Behavior of Cylindrical Shells Under Dynamic Loading by Hydrostatic Pressure or by Axial Compression, by V. L. Agamirov, A. S. Vol'mir, 8 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh Nauk, Mek i Mash, No 3, 1959, pp 78-83.

ARS
Vol XXXI, No 1

Sci-Phys

Mar 61

141,733

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300820065-4

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300820065-4

THE APPROXIMATE SOLUTION OF STEADY-CREEP PROBLEMS, BY L. M. KACHANOV.

RUSSIAN, PER, IZ AK NAUK SSSR, OTDEL TEKH NAUK, MEKH I MASHIN, NO 3, 1959, PP 84-95.

NLL M. 6326

CEGB 3345

SCI - MIN/METALS

OCT 62

214,786

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300820065-4

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300820065-4

Propagation of Unidimensional Waves in Materials With Delayed Yielding, by V. S. Lenskiy, L. N. Fomina, 10 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh Nauk, Mekh i Mash, No 3, 1959, pp 133-136. 9097016

AEC UCRL Tr-729

Sci - Phys
Mar 62

186,508

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300820065-4

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300820065-4

Gas Motion in Channels of Finite Length Under Variable Counter-Pressure, by O. E. Tsynkova, 29 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh Nauk, Mekh i Mash, No 3, 1959, pp 15-24.

AEC UCRL Tr-788(L)

Sci - Phys
Jun 62
List 69

197,830

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300820065-4

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300820065-4

(IN-3905/6).

Coordination Conference on Stability of Gas Turbines, by Ye. I. Boldyrev, 2pp.

RUSSIAN, per, Iz Ak Nauk SSSR, ~~OTN~~, Mekhanika i Mashi~~nost~~, No 3, May-Jun 1959, p 215.

*JPRS - L - 1188 - N

Sci - Engr

Aug 59

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300820065-4

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300820065-4

(NY-3905/2).

Supersonic Flow Around Flat Quasitriangular Wings of Small Length, by P. G. Zhgludev, 4 pp.

RUSSIAN, per, In At Nauk SSSR, Otdel Tekh Nauk, Mekh i Mash, No 3, May/Jun 1959, pp 202-205.

JPRS-L-1188-N

Sci - Engr
Feb 60

107720

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300820065-4

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300820065-4

(AI-3505/e).

One Form of Equations of Supersonic Gas Flow, by V. S. [illegible] Churikov, 6 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh Nauk, Mekh i Mash, No 3, May/Jun 1959, pp 204-206.

JPRS-L-1188-N

Sci & Engr
Feb 60

107 721

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300820065-4

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300820065-4

(RZ-3909/D).

Estimation of the Permissible Irregularity of Precession of a Reversible Table for Testing Floated Integrating Gyroscopes for Drift, by G. A. Slonyonskiy, 4 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh Nauk, Mekh i Mash, No 3, May/Jun 1959, pp 211-212.

JPRS-L-1188-N

107722

Sci - Engr
Feb 60

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300820065-4

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300820065-4

(illegible).

All-Union Conference on Static Stability of Turbomachinery, by Ye. I. Boldyrev, 6 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh Nauk, Mekh i Mash, No 3, May/Jun 1959, pp 213-218.

JPRS-L-1188-N

Sci - Engr
Feb 60

107,723

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300820065-4

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300820065-4

Effect of Atmospheric Turbulence on an Airplane with Flexible Wings at Different Speeds of Flight by Yu. M. Romanovskiy and S. P. Strelkov, 15 pp.

Russian, per, Iz Ak Nauk SSSR, Otdeleniye Tekhnich Nauk, Mekhanika i Mashinostroyeniye, No 4, 1959, ~~xxxxxx~~ pp 3-10. 9687661

FTD-TT-63-750

Soi-Aero
Nov 63

241,547

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300820065-4

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300820065-4

Concerning Equations of Elastic Oscillations if Thin-Walled Bars Filled with Liquid Having a Free Surface, by B. I. Rabinovich,
RUSSIAN, per, Izvestiya Akademiya Nauk SSSR, Mekhanika i Mashinistroenie, No 4, 1959, pp 63-68.
OTS AD 607 964

Sept 66 311, 265

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300820065-4

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300820065-4

On the Strength of Turbine Discs Under ~~Creep~~ Conditions of Creep, by Yu. N. Rabotnikov.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh Nauk, Mekh i Mash, No 4, 1959, pp 93-100.

NLL M. 4883

Del - Engr

Aug 62

207,162

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300820065-4

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300820065-4

On Possible Types of Discontinuities With Conduction, by A. G. Kulikovskiy, G. A. Dyubimov, 3 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh Nauk Mekh Mash, No 4, 1999, pp 130, 131.

Morris D. Friedman
K-193

Sci

Jun 60

118,354

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300820065-4

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300820065-4

Motion of a Slender Blunted Body in the Atmosphere with High Supersonic Speed, by V. V. Lunev, 2 pp.

RUSSIAN, per, In Ak Nauk SSSR, Otdel Tekh Nauk, Mekh i Mash, No 4, 1959, pp 131-133.

ARS
Apr 60

115,513

Sci

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300820065-4

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300820065-4

Investigation of a System of Magneto Hydromechanic Equations, by V. S. Tkalich, 3 pp.

RUSSIAN, Iz Ak Nauk SSSR, Otdel Tekh Nauk, Mekh i Mash, No 4, 1959, pp 134, 135.

[illegible] T-135

119, 125

Sic
Jun 60
Vol III, No 5

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300820065-4

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300820065-4

On the Design of Nozzles, by I. M. Yur'yev, 4 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh Nauk, Mekh i Mash, No 4, Jul-Aug 1959, pp 140-141.

CIA/FDD X-4108

AEC T-4092

Sci - Engr
Feb 60

A.P.S.
Apr 1960

108,322

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300820065-4

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300820065-4

Investigation of a Stationary Discontinuity Surface in an Electromagnetic Field With a s Ons Conductivity Jump, by G. A. Lyubimov, 5 pp.

RUSSIAN, per. Iz Ak Nauk SSSR, Otdel Tekh Nauk, Mekh i Mash, No 5, 1959, pp 9-15.

ARS
Apr 60

Sci

115,515

L-128

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300820065-4

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300820065-4

The Flow of a Viscous Rarefied Gas Around a Flat Half-Infinite Plate, by A. I. Bunimovich,

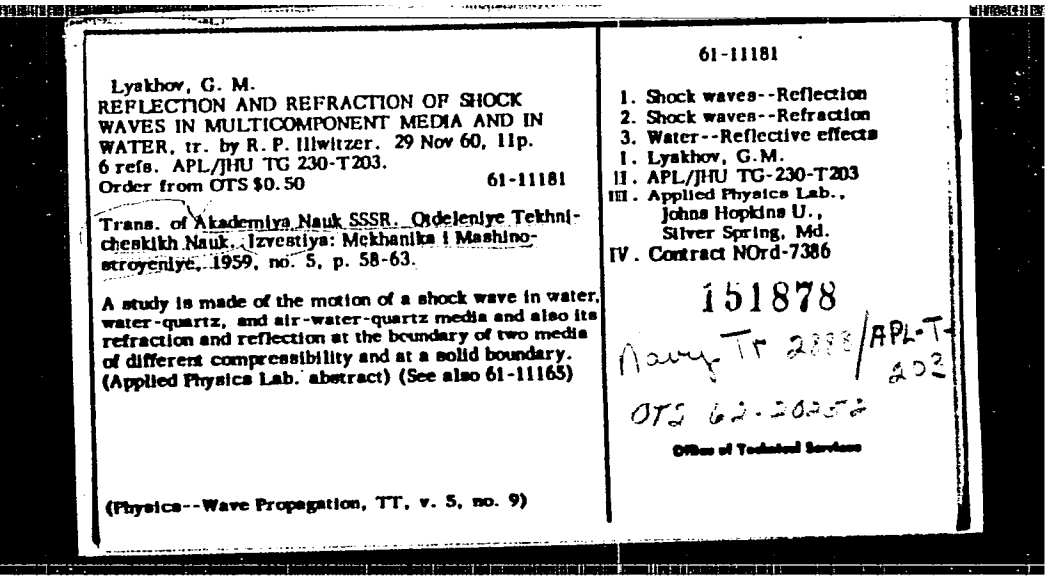
RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh Nauk, Mekh i Mash, No 5, Sep/Oct 1959, pp 16-18.

*NASA

Sci
Aug 60
For JPRS W-3134 (6)

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300820065-4

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300820065-4



Lyakhov, G. M.
REFLECTION AND REFRACTION OF SHOCK WAVES IN MULTICOMPONENT MEDIA AND IN WATER, tr. by R. P. Illwitzer. 29 Nov 60, 11p. 6 refs. APL/JHU TG 230-T203.
Order from OTS $0.50 61-11181

Trans. of Akademiya Nauk SSSR. Otdeleniye Tekhnicheskikh Nauk. Izvestiya: Mekhanika i Mashinostroyeniye. 1959, no. 5, p. 58-63.

A study is made of the motion of a shock wave in water, water-quartz, and air-water-quartz media and also its refraction and reflection at the boundary of two media of different compressibility and at a solid boundary. (Applied Physics Lab. abstract) (See also 61-11165)

(Physics--Wave Propagation, TT, v. 5, no. 9)

61-11181

1. Shock waves--Reflection
2. Shock waves--Refraction
3. Water--Reflective effects
I. Lyakhov, G.M.
II. APL/JHU TG-230-T203
III. Applied Physics Lab., Johns Hopkins U., Silver Spring, Md.
IV. Contract NOrd-7386

151878

Navy Tr 2883/APL-T 203

OTS 62-20252

Office of Technical Services

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300820065-4

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300820065-4

Dynamics of a Gyroscope With Two Degrees of Freedom,
by M. Z. Litvin-Sedoy,

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh Nauk,
Mekh i Mash, No 5, 1959, pp 72-78.

ARS Journal
Vol XXX, No 7

Sci - Phys

Aug 60

122,465

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300820065-4

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300820065-4

On the Location of the Bow Wave In Non-Symmetric Hypersonic Gas Flow Around a Pointed Body, by A. L. Gonor, 3 pp.

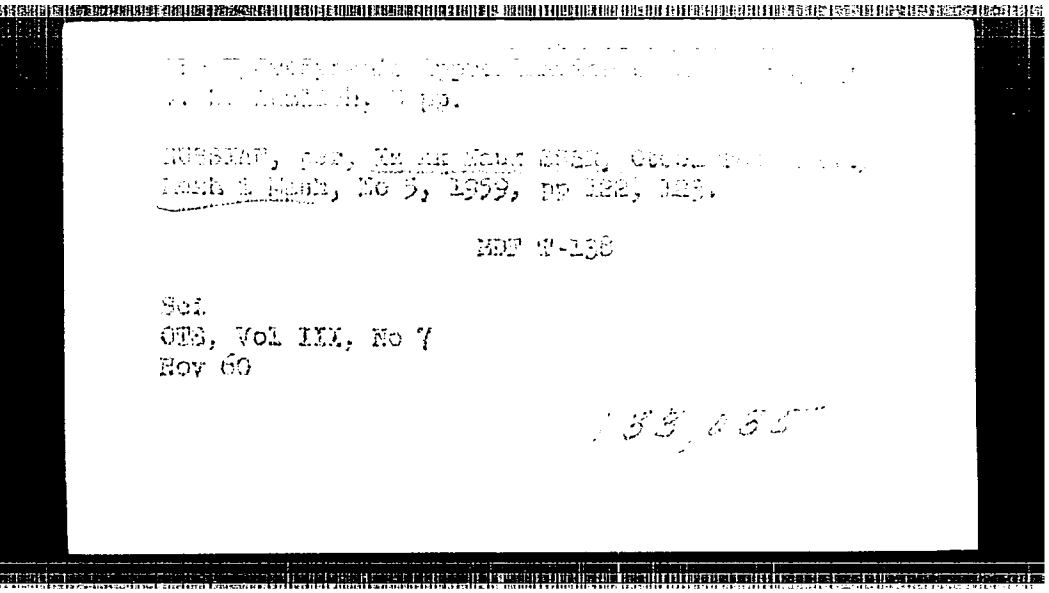
RUSSIAN, XXXX, per, Iz Ak Nauk USSR, XXX Otdel Tekh Nauk, Mekh i Mash, No 5, 1959, pp 117-118.

MDF G-167
9092766
171, 528

Sci
Oct 61

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300820065-4

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300820065-4



[redacted]

[redacted]

[redacted]

MDT T-138

Sel
OTS, Vol IXX, No 7
Nov 60

[redacted]

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300820065-4

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300820065-4

The Laminar Boundary Layer at a Plate in a Supersonic Flow of a Slightly Rarefied Gas, by V. P. Myasnikov,

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh Nauk, Mekh i Mash, No 5, Sep/Oct 1959, pp 127-130.

*NASA

Sci -
Aug 60
For JPRS W-3134 (5)

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300820065-4

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300820065-4

Sidorov, E. A.
ON THE INTERACTION OF CONVECTION AND RADIATION IN AN ABSORBING MEDIUM (O Vzaimodeistvii Konvektsii i Izlucheniya v Pogloshchayushchei Srede). [1962] [11]p. (foreign text included) 6 refs. Order from OTS or SLA $1.60 62-16099

Trans. of Akad[emiya] Nauk SSSR. Otd[elenie] Tekh-[nicheskikh] Nauk. Izvest[iya]: Mekhanika i Mashinostroenie, 1959 [no. 5] p. 134-136.

DESCRIPTORS: *Heat transfer, *Convection, *Thermal radiation

Stationary motion is analyzed in a plane of an incompressible liquid (with constant physical characteristics) near a nonisothermic surface.

(Physics--Thermodynamics, TT, v. 8, no. 7)

62-16099

I. Sidorov, E. A.

Office of Technical Services

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300820065-4

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300820065-4

(DC-3443).

Nikolay Gur'yevich Chetayev, 5 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh Nauk, Mekh i Mash, No 6, 1959, pp 3-6.

77

JPRS 3[illegible]

Sci - Misc
Apr 60

114,461

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300820065-4

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300820065-4

Fusion of a Plate Around Which a Supersonic or High Temperature Gas Stream is Directed, by A. B. Vatazhin, 11 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, OTN, Mekh i Mash, No 6, 1959, pp 7-13. 9677422

FTD-TT-62-433

Sci - Engr, Phys

10 Jul 62 202,200

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300820065-4

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300820065-4

(DC-3443).

Endurance Criterion for Certain Heat-Resistance Alloys Under Combined Stresses, by V. P. Sdobyrev, 19 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh Nauk, Mekh i Mash, No 6, 1959, pp 93-99.

JPRS 3173
UKAEA/Risley- Info Tr IATM-59-6.13
115, 376

Sci - Min/Met
Apr 60

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300820065-4

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300820065-4

Effect of High Pressure Strengthening a Hollow Cylinder, by A. A. Il'yushin, P. M. Ogibalov, 4 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh Nauk, Mekh i Mash, No 6, 1959, pp 110-112.

MDF I-119

1457, 156

Sci

OTS, Vol III, No 8

Apr 61

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300820065-4

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300820065-4

On the Bending of the Curve of a Thin-Walled Tube, the Cross Section of Which Has a Form Close to Circular, in the Presence of External or Internal Pressure, by D. D. Kostovetskiy, 9 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh. Nauk, Mekh i Mash, No 6, 1959, pp 126-131.
9670291

ATIC MCL-928/1

160,804

Sci - Engr

Jul 61

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300820065-4

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300820065-4

Ryzhik, V. M.
SUR LE MECANISME D'IMPREGNATION CAPILLAIRE D'UN MILIEU POREUX [Mechanism of Capillar Impregnation of a Porous Medium] tr. by Nedelko. 4 Oct 60 [12]p. 2 refs. CEA Trans. no. R 532 (text in French).
Order from OTS or SLA $1.60 61-15777

Trans. in French of Akad[emiya] Nauk SSSR. [Otdelenie Tekhnicheskikh Nauk]. Izvest[iya: Mekhanika i Mashinostroenie] 1959, no. 6, p. 151-153.

DESCRIPTORS: *Capillary tubes, Impregnation, Porosity, Liquids, Surface tension, Gases, Hydrodynamics.

(Mechanics--Hydrodynamics, TT, v. 8, no. 1)

61-15777

I. Ryzhik, V. M.
II. CEA-tr-R532
III. Commissariat à l'Énergie Atomique (France)

Office of Technical Services

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300820065-4

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300820065-4

66-26b

R-6761-D
11 March 1966

Calculation of a laminated boundary layer in a compressed gas with the presence of heat exchange and arbitrary pressure distribution along a plane

By: V. S. Avduyevskiy, R. M. Kopyatkevich

From: IZVESTIYA AKAD. NAUK SSSR, OTN, MEKHANIKA I MASHINOSTROYENIYE #1, 1960 : pp3-11 (9 pp)

Russian - cut for wds:

Type 1 original and 1 carbon copy.
Document may be cut.

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300820065-4

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300820065-4

R-4827-D

Spacial Laminar Boundary Layer With Longitudinal and Laterial Drop in Pressure, by V. V. Bogdanova. RUSSIAN, per, Iz Ak Nauk SSSR, OTN Mekh i Mash, No 1, 1960, pp 12-19.

*JPRS/Air Force

Sci
Jan 65

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300820065-4

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300820065-4

14

(NY-4006).

Motion of Thin Bodies at High Supersonic Velocities, by G. M. Gam-Zelikovich, A. I. Bunimovich, M. P. Mikhaylova, 12 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh Nauk, Mekh i Mash, No 1, 1960, pp 33-40.

JPRS 2909

Sci - Engr - Phys
Jul 60

119,931

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300820065-4

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300820065-4

14 (NY-4006).

Axially Symmetrical Meridian Flow of a Conducting Fluid, Balancing the Parameters of the Rotational Flow of a Viscous Fluid, by G. L. Grodizovskiy, A. N. Dyukalov, V. V. Tokarev, A. I. Tolstykh, 9 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh Nauk, Mekh i Mash, No 1, 1960, pp 41-46.

JPRS 2897

Sci - Engr
Sep 60

125, 055

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300820065-4

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300820065-4

14 (NY-4006)

Problem of the Wave Motion of a Two-Component Medium, by Ya. Z. Kleyman, 17 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh Nauk-Mekh i Mash, No 1, Jan/Feb 1960, pp 60-69.

JPRS 5096

Sci - Engr

Aug 60

121,943

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300820065-4

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300820065-4

14

Motion of a Solid Body in the Pulsating Flow of a Viscous Fluid, by N. L. Granat, 14 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh Nauk-Mekh i Mash, No 1, 1960, pp 70-78.

JPRS 2844

Sci - Engr

Jul 60

121,462

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300820065-4

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300820065-4

Small Parameter Method for Second-Order Differential Equations With Discontinuous Terms, by T. S. Shteinberg, 5 pp.

RUSSIAN, per, Izvestiia Akademii Nauk SSSR, Otd. Tekh. Nauk, Mekhanika i Mashinostroenie, No 1, 1959, pp 106-112.

ARS Journal
Vol XXX, No 11
Nov 1960

Sci - Tech
2

192,309

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300820065-4

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300820065-4

14 (NY-8000)

On the Stability and Oscillations of Anisotropic Plates, by S. A. Ambartsumyan, A. A. Khachatryan, 15 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh Nauk-Mekh i Mash, No 1, 1960, pp 113-122.

JPRS 2864

Sci - Engr

Jul 60

121,455

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300820065-4

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300820065-4

14

Elastic-Plastic Deformation of a Welded Cylindrical Shell of Different Materials, by V. S. Chernina, 15 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh Nauk-Mekh i Mash, No 1, Jan/Feb 1960, pp 133-140.

JPRS 5095

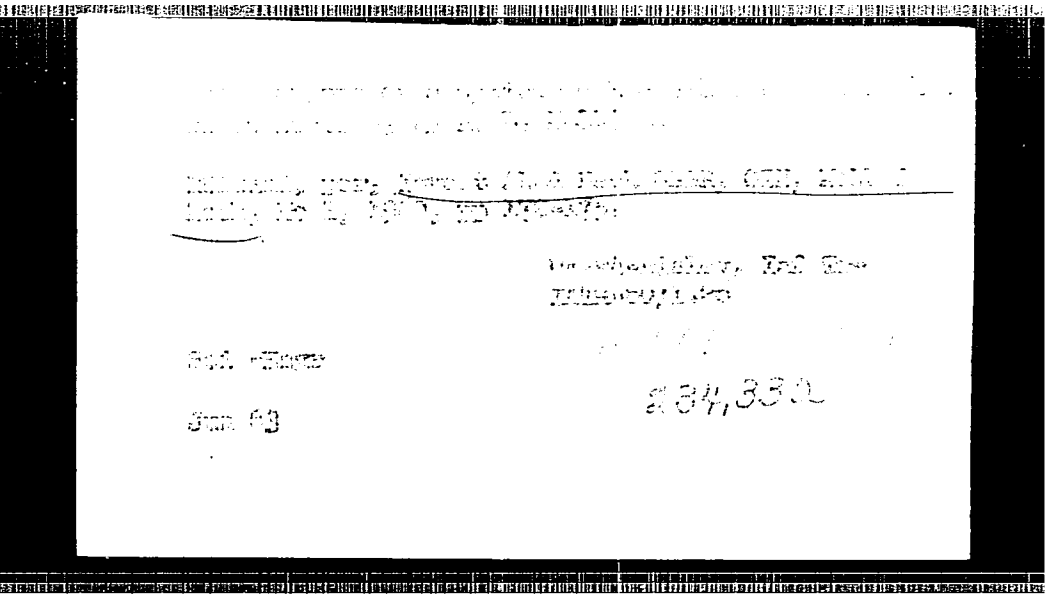
Sci - Engr

Aug 60

121,665

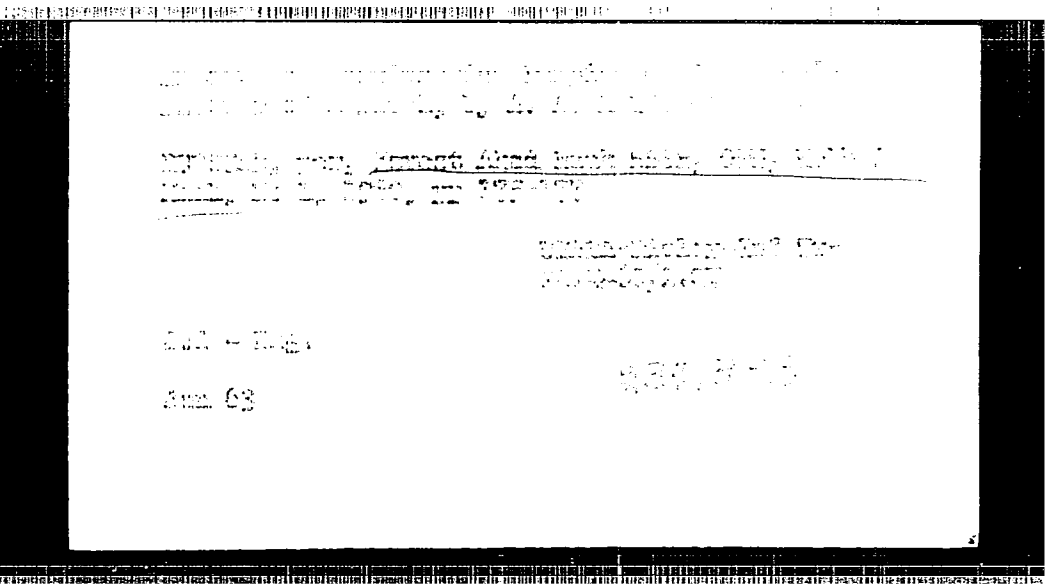
APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300820065-4

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300820065-4



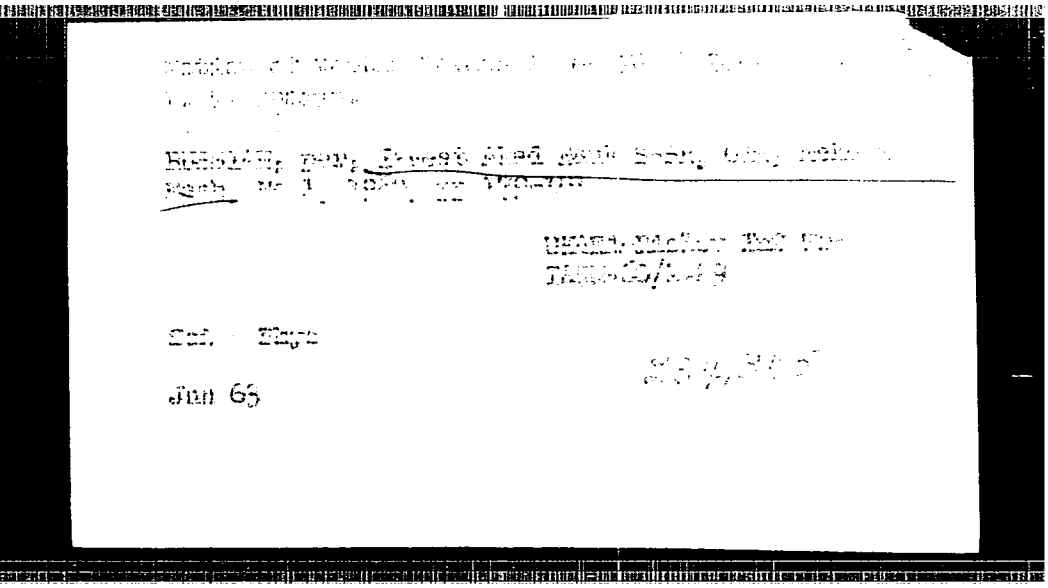
APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300820065-4

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300820065-4



APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300820065-4

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300820065-4



Jan 65

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300820065-4

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300820065-4

(RZ-4000)

Examination of a System of Equations of Magnetic Hydrodynamics for a Two-Parameter Case, by V. S. Tkalich, 4 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh Nauk-Mekh i Mash, No 1, 1960, pp 182, 183.

JPRS 5086

Sci - Engr

Jul 60

121,456

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300820065-4

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300820065-4

Propagation of Induced Plane Pressure Waves of Small Amplitude in a Viscous Gas, by V. A. Prokofyev.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh Nauk , Mekh i Mash, No 2, 1960, pp 17.

Amer Rocket Soc Jour
Vol 31, No 7, p 988

Mar 62

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300820065-4

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300820065-4

14 (NY-4515)

Solution of Some Problems on the Motion of Air Taking Into Consideration Dissociation and Ionization, by S. S. Kvashnina, V. P. Korobeynikov, 14 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh Nauk -- Mekh i Mash, No 2, 1960, pp 34-41.

JPRS 5303

Sci - Phys, Space Research

Sep 60

125,386

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300820065-4

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300820065-4

Acoustic Emission of Cavities in Supersonic Airflow, by M. G. Morozov.
RUSSIAN, per, Izvestiya AN SSSR. Mekh i Mash, No 2, 1960, pp 40-46.
AIR/FTD/MT-24-296-68

Sci-Phys
Apr 69

380,521

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300820065-4

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300820065-4

R-430-N/C

A Story of the Vibrations of Gear Wheels Caused by Collisions Between Teeth, by B. M. Abramov,

RUSSIAN, per, Iz Ak Nauk SSSR, OTN, Mekh i Mash, No 2, 1960, pp 102-109.

*JPRS for US Army Ord Ars Det

Sci
1 Mar 61

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300820065-4

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300820065-4

R-576-N

Generalization of the Theory of Transverse Impact, on a Flexible String, by A. L. Pavlenko.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh Nauk, Mekh i Mash, No 2, 1960, pp 110-119.

*JPRS for Army Ord Ars Det

Sci - Phys

Jun 61

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300820065-4

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300820065-4

(NT-4545)

p 14

On Controlling the Angular Motion of a Body With the Aid of Rotors, by M. A. Litvin-Sedoy, 5 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh Nauk - Mekh i Mash, No 2, 1960, pp 135-138.

JPRS 5304

Sci - Phys, Space Research

Aug 60

123,415

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300820065-4

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300820065-4

14

(NY-4515)

On the Propagation of Small Disturbances in a Flat Nozzle, by Z. N. Kiseleva, 8 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh Nauk -- Mekh i Mash, No 2, 1960, pp 141-144.

JPRS 5305

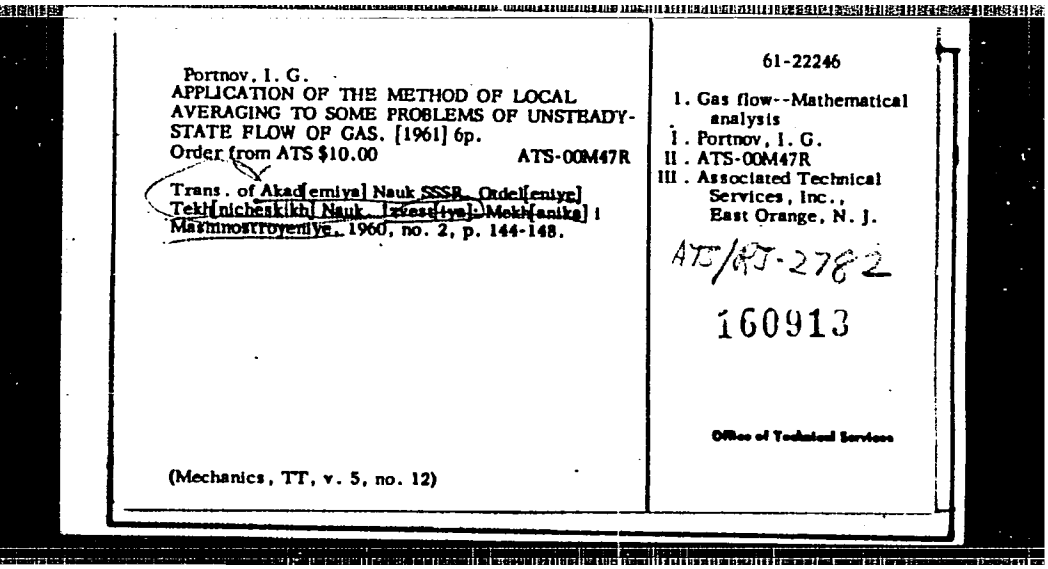
Sci - Phys, Space Research

Sep 60

125,387

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300820065-4

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300820065-4



Portnov, I. G.
APPLICATION OF THE METHOD OF LOCAL AVERAGING TO SOME PROBLEMS OF UNSTEADY-STATE FLOW OF GAS. [1961] 6p.
Order from ATS $10.00 ATS-00M47R

Trans. of Akad[emiya] Nauk SSSR. Otdel[eniye] Tekh[nicheskikh] Nauk. Izvest[iya]. Mekh[aniki] i Mashinostroyeniye, 1960, no. 2, p. 144-148.

(Mechanics, TT, v. 5, no. 12)

61-22246

1. Gas flow--Mathematical analysis
I. Portnov, I. G.
II. ATS-00M47R
III. Associated Technical Services, Inc., East Orange, N. J.

ATS/RJ-2782

160913

Office of Technical Services

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300820065-4

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300820065-4

Ryzhik, V. M.
CAPILLARY WATER IMBIBITION BY AN OIL-SATURATED HYDROPHILIC FORMATION. [1961] 5p.
Order from ATS $8.80 ATS-99M46R

Trans. of Akad[emiya] Nauk SSSR. Otdel[eniye] Tekh[nicheskikh] Nauk. Izvest[iya]: Mekh[anika] i Mashinostroyeniye, 1960, no. 2, p. 149-151.

ATS-RJ-3432

(Engineering--Chemical, TT, v. 5, no. 12)

61-22251

1. Petroleum--Separation
2. Water--Absorption
I. Ryzhik, V. M.
II. ATS-99M46R
III. Associated Technical Services, Inc., East Orange, N. J.

160916

Office of Technical Services

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300820065-4

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300820065-4

R-577-N

Dynamics of Drive and Conveyor Chains, by G. Ya. Golovnin.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh Nauk, Mekh i Mash, No 2, 1960, pp 168-172.

*JPRS for Army Ord Ars Det

Sci - Engr

Jun 61

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300820065-4

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300820065-4

All-Union Congress on Theoretical and Applied Mechanics, 7 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh Nauk, Mekh i Mash, No 2, 1960, pp 175-176. 9669372

FTD-TT-63-199

Sci-Engr
July 63

235,830

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300820065-4

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300820065-4

Oding, I. A.
RUPTURE OF METALS AS THE RESULT OF THE INTERACTION OF DISLOCATIONS
R. Hardbottle, tr. 1963 [16p] 10refs TRG Information Series 6 (C).
Order from OTS, SLA, or ETC $1.60 TT-64-13809

Trans. of Akad[emiya] Nauk SSSR. Otd[elenie] Tekh[nicheskikh] Nauk. Izv[estiya] Met[allurgiya] i Topl[ivo] 1960, no. 3, p. 3-10.

(Metallurgy--Structural, TT, v. 12, no. 2)

TT-64-13809

I. Oding, I. A.
II. TRG-IS-6 (C)
III. United Kingdom Atomic Energy Authority, Risley (England)

Office of Technical Services

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300820065-4

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300820065-4

S-589/60 (DC-4289)

On the Loss of Stability of a Cylindrical Shell Under Dynamic Loading, by Yu. I. Kadashevich, A. K. Pertsev, 9 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh Nauk, Mekh i Mash, No 3, 1960, pp 30-33.

JPRS 3984

127,247

Sci - Engr

Sep 60

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300820065-4

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300820065-4

The Effect of Boundaries of a Body on the Development of Cracks due to Brittle Fracture, by G. I. Barenblatt, G. P. Cherepanov, 24 pp. RUSSIAN, per, Izv Akad Nauk SSSR, Otn, Mekh I Mashinos, No 3, 1960, pp 79-88. AEC/UCRL-Tr-10425-69

Sci/Mech
July 70

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300820065-4

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300820065-4

Propagation and Interaction of Compression and Rarefaction Waves in Elastic-Plastic Media, by G. M. Liyakhov, N. I. Polyakova, 11 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh Nauk, Mekh i Mash, No 3, 1960, pp 99-108.

ARS
VOL XXXI, No 11

Sci - Phys

180,244

17 Jan 62

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300820065-4

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300820065-4

Aerodynamic Interaction in a Free Molecular Flow, by E. Larish, 3 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh Nauk, Mekh i Mash, No 3, 1960, pp 117-120.

ARS
Vol XXXI, No 11

Sci - Phys

17 Jan 62

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300820065-4

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300820065-4

S-589/60 (DC-4289)

The Motion of a Thin Blunted Cone With a Small Angle of Attack at a High Supersonic Speed, by V. V. Junev, I. N. Murzinov, O. N. Ostapovich, 9 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh Nauk, Mekh i Mash, No 3, 1960, pp 121-125.

JPRS 3985

Sci - Engr

Sep 60

127,240

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300820065-4

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300820065-4

Shock Waves in Magnetohydrodynamics, by M. N. Kogan, 2 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel. Tekh. Nauk, Mekhanika i Mashinostroenie, No 3, pp 143-146, 1960.

ARS Journal
Vol 32, No 5

Sci Engr

198,626

Jun 62

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300820065-4

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300820065-4

Yegorova, I. I. and Ogandzhanyants, V. G.
SIMULATION OF THE PROCESSES OF OIL DISPLACEMENT FROM STRATIFIED POROUS MEDIA. [1961] 6p.
Order from ATS $14.15 ATS-75M46R

Trans. of Akad[emiya] Nauk SSSR, Otdel[eniye] Tekh[nicheskikh] Nauk, Izvest[iya]: Mekh[anika] i Mashinostroyeniye, 1960, no. 3, p. 147-151.

(Engineering--Chemical, TT, v. 5, no. 12)

61-22216

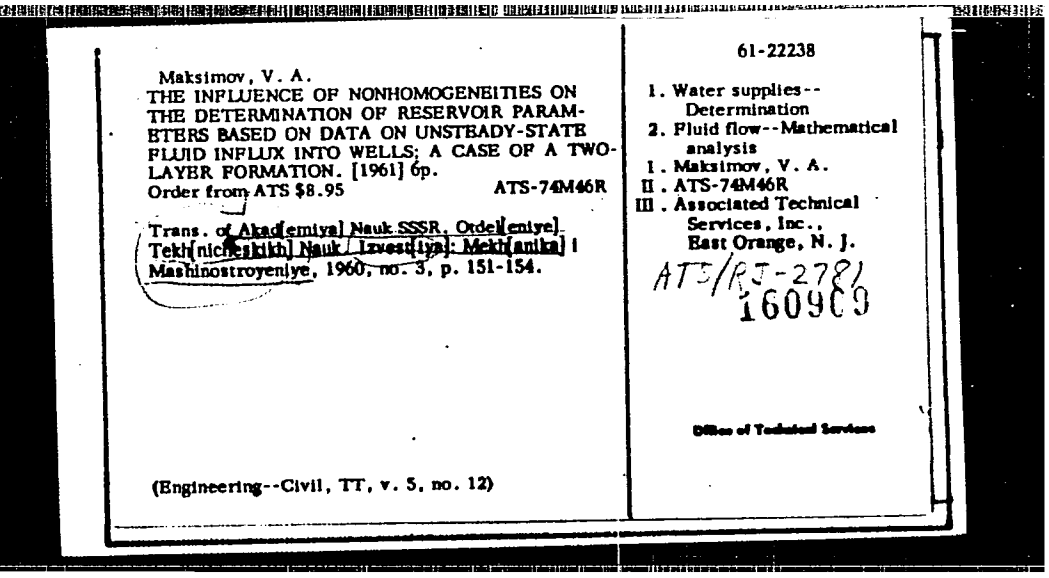
1. Soils--Porosity
2. Porous materials--Physical properties
3. Petroleum--Recovery
I. Yegorova, I. I.
II. Ogandzhanyants, V. G.
III. ATS-75M46R
IV. Associated Technical Services, Inc., East Orange, N. J.

152100
ATS/RT-2784

Office of Technical Services

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300820065-4

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300820065-4



Maksimov, V. A.
THE INFLUENCE OF NONHOMOGENEITIES ON THE DETERMINATION OF RESERVOIR PARAMETERS BASED ON DATA ON UNSTEADY-STATE FLUID INFLUX INTO WELLS; A CASE OF A TWO-LAYER FORMATION. [1961] 6p.
Order from ATS $8.95 ATS-74M46R

Trans. of Akad[emiya] Nauk SSSR, Otdel[eniye] Tekh[nicheskikh] Nauk, Izvest[iya]: Mekh[anika] i Mashinostroyeniye, 1960, no. 3, p. 151-154.

(Engineering--Civil, TT, v. 5, no. 12)

61-22238

1. Water supplies--Determination
2. Fluid flow--Mathematical analysis
I. Maksimov, V. A.
II. ATS-74M46R
III. Associated Technical Services, Inc., East Orange, N. J.

ATS/RJ-2781
160909

Office of Technical Services

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300820065-4

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300820065-4

Donat, E. V.
THE CRITICAL FLOW CONDITION IN AN ASCENDING GAS STREAM CARRYING SOLID PARTICLES.
[1961] 4p.
Order from ATS $5.60 ATS-97M45R

Trans. of Akad[emiya] Nauk SSSR. Otdel[enie] Tekh[nicheskikh] Nauk. Izvest[iya] Mekhanika i Mashinostroenie, 1960, no. 3, p. 163-164.

DESCRIPTORS: *Gas flow, *Hydrodynamics, Particles, Transportation, Gases, Solids.

(Mechanics--Hydrodynamics, TT, v. 6, no. 4)

61-22221

I. Donat, E. V.
II. ATS-97M45R
III. Associated Technical Services, Inc., East Orange, N. J.

ATS/RJ-2946

177.(1)

Office of Technical Services

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300820065-4

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300820065-4

Magneto-Vortical Rings, by Yu. P. Ladikov-
8 pp.

RUSSIAN, per: Iz Ak Nauk SSSR, Otdel Tekh Nauk,
Mekh i Mash, No 4, 1960, pp 7-13.

ARS
Vol XXXI, No 11

Sci - Phys

179,300

17 Jan 62

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300820065-4

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300820065-4

Dispersal of Conducting Gas by a
Running Magnetic Field, by V. B. Baranov,
10 pp.
RUSSIAN, per. Iz Ak Nauk SSSR, Mekh i Mash,
No 4, 1960, pp 14-18. P100063566
FTD-TT-65-1476

Sci - Phys
Oct 66

312,880

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300820065-4

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300820065-4

On the Effect of the Atomization of a Liquid Jet Introduced into a Gas Stream on the Flow Parameters Beyond the Mixing Zone, by
S. D. Malyukhinets.
RUSSIAN, per, Izvestiya AN SSSR, Otdeleniye Tekhnicheskikh Nauk, Mekhanika i Mashinostroyeniye, No 4, 1960, pp 19-24.
#TTD-HT-23-559-68

Sci-Physics
Aug 68

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300820065-4

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300820065-4

Nikolaevskii, V. N.
AVERAGE SIMILARITY OF MICROSTRUCTURES OF PORE SPACES. [1961] 8p.
Order from ATS $14.95 ATS-87M47R

Trans. of Akad[emiya] Nauk SSSR, Otdel[enie] Tekh[nicheskikh] Nauk, Izvest[iya]: Mekh[anika] i Mashinostroenie, 1960, no. 4, p. 41-47.

DESCRIPTORS: *Porous metals, Microstructure.

(Metallurgy--Structural, TT, v. 6, no. 8)

61-25193

I. Nikolaevskii, V. N.
II. ATS-87M47R
III. Associated Technical Services, Inc., East Orange, N. J.

NASA RTS 1977
ATS-RJ-3433

195216

Office of Technical Services

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300820065-4

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300820065-4

Buzinov, S. N. and Umrikhin, I. D.
INVESTIGATION OF RESERVOIRS AND WELLS UNDER THE HARMONIC LAW OF RESERVOIR STIMULATION. [1961] 7p.
Order from ATS $9.75 ATS-26M46R

Trans. of Akad[emiya] Nauk SSSR, Otdel[enie] Tekh[nicheskikh] Nauk, Izvest[iya] Mekhanika i Mashinostroenie, 1960, no. 4, p. 48-52.

DESCRIPTORS: *Petroleum, Sources, Storage, Analysis, Water supplies, Well drilling.

(Engineering, TT, v. 6, no. 4)

61-22227

I. Buzinov, S. N.
II. Umrikhin, I. D.
III. ATS-26M46R
IV. Associated Technical Services, Inc., East Orange, N. J.

ATS/AT-2720

Office of Technical Services

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300820065-4

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300820065-4

Aksel'rad, E. L.
EQUATIONS OF DEFORMATION FOR SHELLS OF REVOLUTION AND FOR THE BENDING OF THIN-WALLED TUBES SUBJECTED TO LARGE ELASTIC DISPLACEMENTS, tr. by Nicholas J. Hoff. July 62 [5]p. 11 refs.
Order from ARS in Its Journal, v. 32, no. 7, $3.00

Trans. of Akademiya Nauk SSSR. Otdel[enie] Tekh[nicheskikh] Nauk. Izvestiya: Mekhanika i Mashinostroenie, 1960, no. 4, p. 84-92.

DESCRIPTORS: *Cylindrical bodies, *Bodies of revolution, *Deformation, Elasticity, Deflection, Differential equations.

(Mechanics, TT, v. 8, no. 7)

62-22178

I. Aksel'rad, E. L.
II. Research Information Service, New York
III. American Rocket Society, New York

Office of Technical Services

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300820065-4

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300820065-4

Damping of Accelerometers with High Natural Frequencies, by A. I. Mironov, M. I. Subbotin,

RUSSIAN, per, Izv. AN SSSR, Otd. Tekhn. Nauk, Mekhan. in Mashinostr., July-Aug No 4, 1960, p 132.

ERDL Ft Belvoir
T-1297

Sci - Electron

155,242

Jun 61

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300820065-4

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300820065-4

Random Parametric Effects in Certain Problems of Aeroelasticity, by I. S. Romanovskiy,

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh Nauk, Mekh i Mash, No 4, 1960, pp 133-135.

NASA TT-F-8008

Sci
Sep 61

168,667

US GOV'T ONLY

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300820065-4

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300820065-4

Capacitive Method of Measuring Nonstationary, Short Period, Thermal Fluxes, by N. A. Anfimov, A. P. Shevtzov, 2 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otd. Tekh, Nauk, Mekhanika i Mashinostroenie, No 4, pp 163-165, 1960.

ARS Journal
Vol 32, No 5

Sci - Phys

Jun 62

198, 624

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300820065-4

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300820065-4

A ONE-DIMENSIONAL FLOW OF A CONDUCTING GAS WITH A CONSTANT VELOCITY IN A TRAVELLING MAGNETIC FIELD, BY YE. I. YANTOVSKIY, 3 PP.

RUSSIAN, PER, IZ AK NAUK SSSR, OTDEL TEKH NAUK, MEKH I MASH, NO 4, 1960, PP 166-167. 9665772

FTD-TT-62-331

SCI - PHYS
JUL 62

204,464

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300820065-4

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300820065-4

Danilov, V. L. and Skvortsov, V. V.
ELECTRONIC COMPUTER CALCULATIONS OF THE MOVEMENT OF THE OIL-WATER CONTACT AND THE TIME OF FLOODING-OUT OF WELLS. [1961]
4p.
Order from ATS $7.00 ATS-57N48R

Trans. of Akad[emiya] Nauk SSSR. Otdel[enie] Tekh[nicheskikh] Nauk. Izvest[iya]. Mekh[anika i] Mashinostroenie, 1960, no. 4, p. 182-184.

DESCRIPTORS: *Fluid flow, Computers, Mathematical analysis, *Petroleum, *Water, Well drilling.

(Mechanics--Hydrodynamics, TT, v. 6, no. 4)

61-22224

I. Danilov, V. L.
II. Skvortsov, V. V.
III. ATS-57N48R
IV. Associated Technical Services, Inc., East Orange, N. J.

ATS/AT-2783

177701

Office of Technical Services

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300820065-4

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300820065-4

Possible Increase of Base Pressure Behind a Wedge at Hypersonic Velocities, by E. N. Bondarev, M. Ya. Iudelovich,

RUSSIAN, per, ~~Iz Ak Nauk SSSR, Otdel Tekh Nauk, Mekh i Mash.~~ No 5, Sep-Oct 1960, pp 1-186.

Available at JHU/APL
ERDL, FT Belvoir
T-138
2

Sci - Phys
Aug 61

163,582

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300820065-4

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300820065-4

NASA TT F-70
National Aeronautics and Space Administration.
AERODYNAMIC EFFECTS OF METEORITES. A SPECIFIC CASE. (Ob odnom effekte v oblasti aerodinamiki meteorov.) K. P. Stanyukovich. August 1961. 12p. OTS price, $0.50.
(NASA TECHNICAL TRANSLATION F-70. Translation from Akademiia Nauk SSSR, Izvestiia, Otdelenie Tekhnicheskikh Nauk, Mekhanik i Mashinostroenie, no. 5, 1960, p. 3-8.)

Presented is a study of atmosphere molecule collisions on a meteor body. For velocity impacts, the magnitude c_x is found to be greater than theory predicts. For the given deceleration, the density of the atmosphere is thought to be several times lower than previously calculated by means of meteor data.

Copies obtainable from NASA, Washington

I. Stanyukovich, K. P.
II. NASA TT F-70
III. Akademiia Nauk SSSR, Izvestiia, Otdelenie Tekhnicheskikh Nauk, Mekhanik i Mashinostroenie, no. 5, 1960, p. 3-8

(Initial NASA distribution: 5, Atmospheric entry; 6, Astronomy; 20, Fluid mechanics; 21, Geophysics and geodesy.)

RAND Corp
RM-2952
909651
NASA

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300820065-4

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300820065-4

Sklyanin, Yu. I.
THE MOVEMENT OF A MIXTURE OF THREE FLUIDS IN A POROUS MEDIUM. [1961] 8p.
Order from ATS $15.45 ATS-68N50R

Trans. of Akad[emiya] Nauk SSSR. Otdel[eniye] Tekh[nicheskikh] Nauk. Izvest[iya]: Mekh[anika] i Mashinostroyeniye. 1960, no. 5. p. 33-39.

DESCRIPTORS: *Fluid flow, Analysis, Fluids, Porous materials.

63-10215

(Mechanics--Hydrodynamics, TT, v. 6, no. 2)

61-22610

I. Sklyanin, Yu. I.
II. ATS-68N50R
III. Associated Technical Services, Inc., East Orange, N. J.

16962

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300820065-4

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300820065-4

Ryzhik, V. M.
SHAPE OF THE STABILIZED INTERFACE DURING THE DISPLACEMENT OF GAS BY LIQUID FROM A TWO-LAYER STRATUM. [1961] 11p.
Order from ATS $16.00 ATS-89N-49R

Trans. of Akad[emiya] Nauk SSSR. Otdel[enie] Tekh[nicheskikh] Nauk. Izvest[iya]: Mekh[anika i Mashinostroenie, 1960, no. 5, p. 40-48.

DESCRIPTORS: *Rock, *Gases, *Liquids.

ATS - RJ - 3438

(Engineering, TT, v. 6, no. 8)

61-25182

1. Title: Hydraulic fracturing
I. Ryzhik, V. M.
II. ATS-89N49R
III. Associated Technical Services Inc., East Orange.

[illegible]215

Office of Technical Services

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300820065-4